| Application# | Patent# | Status | Date Filed | Title | Inventor Name |
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|----------|------|---|---|---------------------|---------|------------------|
| S1 | 1 | "20040087670".pn. | US-PGPUB | OR | ON | 2005/08/23 06:15 |
| S2 | 4 | ("5795557" "6670402" "6729042" "7074880").pn. | US-PGPUB; USPAT | OR | ON | 2006/08/16 07:06 |
| S3 | 4 | S2 and (pulse or pressure) | US-PGPUB; USPAT | OR | ON | 2006/08/16 07:07 |
| S4 | 2 | S2 and (pulse and pressure) | US-PGPUB; USPAT | OR | ON | 2006/08/16 07:10 |
| S5 | 50 | ("6670402" "6729042" "5686031" "5958815" "6475561" "5565142" "5736425" "5807607" "5955140" "6131305" "6171645" "5275796" "5395805" "5409683" "6168773" "6172120" "6258305" "6315971" "6339034" "6380105" "6156386" "4873218" "4997804" "5789075" "5866027" "6077876" "6090861" "6129949" "6140377" "6438867" "6516537" "5762829" "6110439" "5386706" "5478867" "5680713" "6764667" "4610863" "5192351" "5227239" "5242647" "5705535" "5811031" "5837630" "5928723" "5945084" "5962539" "6040375" "6071486" "6235677").pn. | US-PGPUB; USPAT | OR | ON | 2006/08/16 07:10 |
| S6 | 2 | S5 and pulse and pressure | US-PGPUB; USPAT | OR | ON | 2006/08/16 07:10 |
| S7 | 2 | S5 and aerogel and pulse and pressure | US-PGPUB; USPAT | OR . | ON | 2006/08/16 07:10 |
| S8 | 428 | 516/111.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 07:12 |
| S9 | 1219 | 210/634.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 07:13 |
| S10 | 1021 | 210/635.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 07:13 |

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|-----|---------|---|---|----------|----|------------------|
| S11 | 279 | 210/637.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 07:14 |
| S12 | 2472 | S9 S10 S11 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 07:14 |
| S13 | 17 | ("2993005" "4619908" "4667417" "4894357" "5122291" "5207814" "5409683" "5473826" "5496527" "5795557" "5935895" "5958363" "6071487").PN. OR ("6670402"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/08/16 07:48 |
| S14 | 115414 | (supercritical or super\$1critical or (super asj critical)) with (fluid or gas or liquid or solvent) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 10:17 |
| S15 | 3785698 | extract\$4 or exchang\$4 or dry\$4 or (drive\$1off or (drive adj off)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 10:18 |
| S16 | 631733 | gel or aerogel | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 10:19 |
| S17 | 126587 | (pressure or psi) with (pulse or frequency or hetrz or hz) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 10:20 |
| S18 | 223267 | piezoelectr\$3 or piezo\$1electr\$3 or (piezo adj electr\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 10:22 |

| S19 | 205 | S14 and S15 and S16 and S17 and S18 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 10:22 |
|-----|------|---|---|------|----|------------------|
| S20 | 0 | S14 and S15 and S16 and S17 and S18 | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 10:23 |
| S21 | 2 | S14 and S15 and S16 and S17 and S18 | USOCR | OR | ON | 2006/08/16 10:24 |
| S22 | 5 | (S14 with S16) and (S14 with S15) and (S16 with (S14 and S15)) and S17 and S18 and (S17 with S18) | US-PGPUB; USPAT | OR | ON | 2006/08/16 10:34 |
| S23 | 7 | (S14 with S16) and (S14 with S15) and (S16 with (S14 and S15)) and S17 and S18 | US-PGPUB; USPAT | OR | ON | 2006/08/16 10:30 |
| S24 | 5 | (S14 with S16) and (S14 with S15) and S17 and S18 and (S17 with S18) | US-PGPUB; USPAT | OR . | ON | 2006/08/16 10:31 |
| S25 | 7 | (S14 with S15) and S17 and S18 and (S17 with S18) | US-PGPUB; USPAT | OR | ON | 2006/08/16 10:31 |
| S26 | 13 | (S14 with S16) and (S14 with S15) and (S16 with (S14 and S15)) and S17 | US-PGPUB; USPAT | OR | ON | 2006/08/16 10:37 |
| S27 | 2520 | S17 with S18 | US-PGPUB; USPAT | OR | ON | 2006/08/16 10:37 |
| S28 | 87 | (S17 with S18) and S14 and S15 | US-PGPUB; USPAT | OR | ON | 2006/08/16 10:38 |
| S29 | 7 | (S17 with S18) and (S14 with S15) | US-PGPUB; USPAT | OR | ON | 2006/08/16 10:39 |
| S30 | 80 | S28 not S29 | US-PGPUB; USPAT | OR | ON | 2006/08/16 10:42 |
| S31 | 80 | S30 and S18 | US-PGPUB; USPAT | OR | ON | 2006/08/16 10:42 |
| S32 | 1009 | ((gas or fluid) with pulse) and (pulse with S18) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 11:23 |
| 533 | 130 | ((gas or fluid) with pulse) and (pulse with S18 with (means or generator)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 11:28 |

| S34 | 67 [.] | S33 and (@pd<="19981020" or @ad<="19991020") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 11:29 |
|-----|-----------------|--|---|----|----|------------------|
| S35 | 301 | (pressure with pulse) and ((pulse or pressure) with S18 with (means or generator)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 11:29 |
| S36 | 168 | S35 and (@pd<="19981020" or @ad<="19991020") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/16 11:29 |
| S37 | 119 | S35 and (@pd<="19981020" or @ad<="19991020") | US-PGPUB; USPAT | OR | ON | 2006/08/16 11:30 |
| S38 | 119 | S37 and S18 | US-PGPUB; USPAT | OR | ON | 2006/08/16 11:30 |